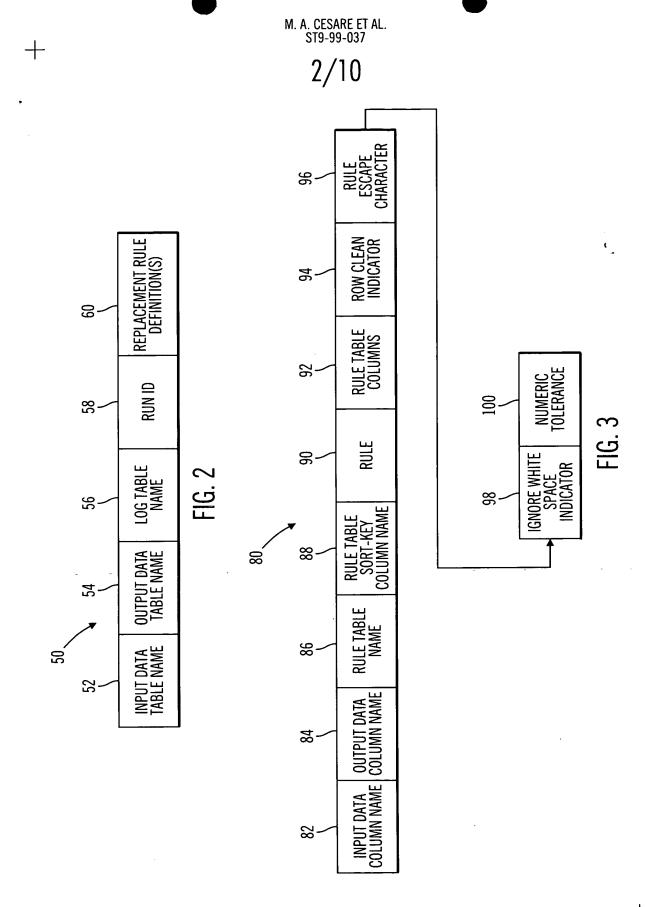


FIG. 1



FIND PATTERN REPLACEMENT TEXT VALUE

FIG. 3a

FIND VALUE REPLACEMENT TEXT VALUE

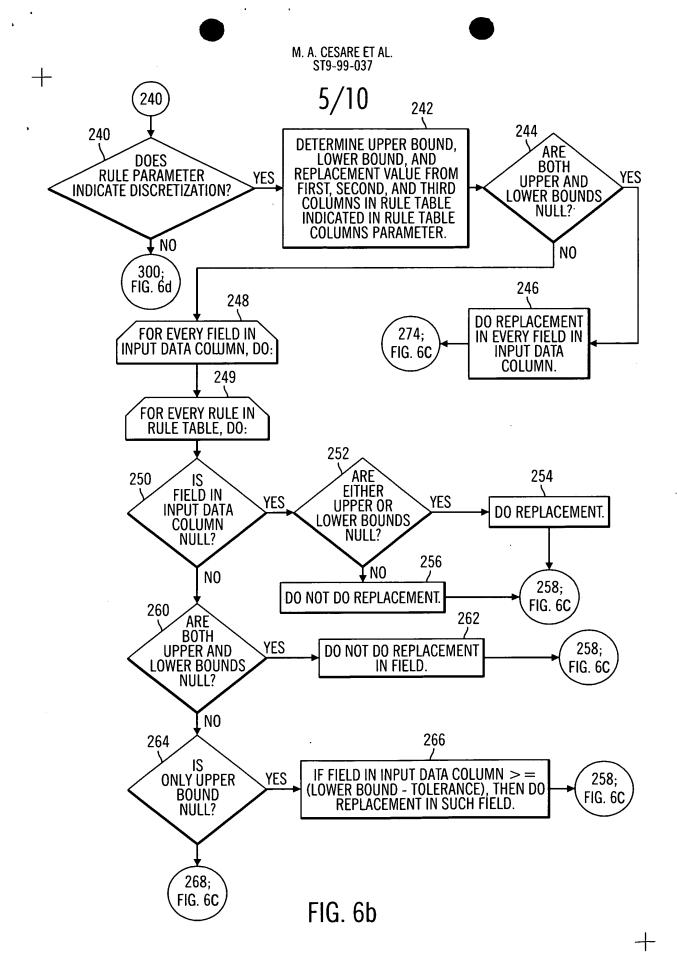
FIG. 3b

LOWER BOUND UPPER BOUND REPLACEMENT VALUE

FIG. 4

LOWER BOUND LOWER REPLACEMENT VALUE UPPER BOUND UPPER REPLACEMENT VALUE

FIG. 5



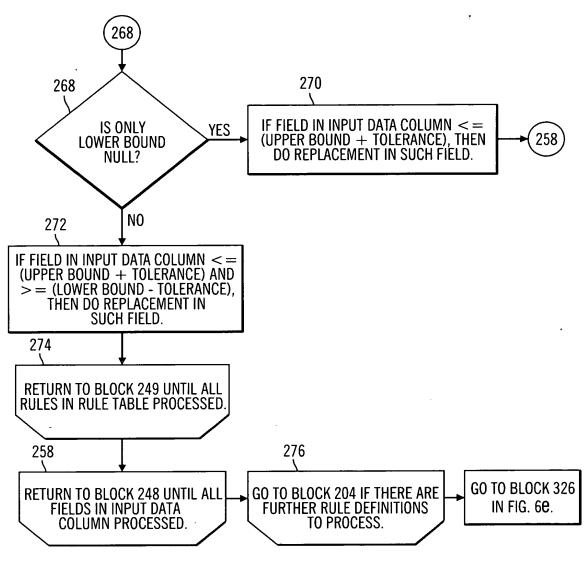


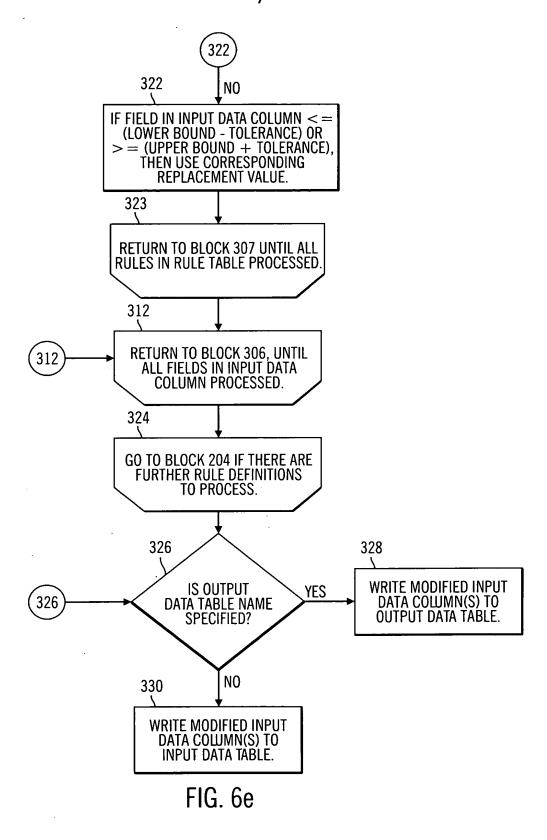
FIG. 6c

FIG. 6d

322;

FIG. 6e

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CITY	PRODUCT NAME	PRODUCT CATEGORY	SALES (\$)	UNIT SALES
VARCHAR (20)	VARCHAR (30)	VARCHAR (15)	DECIMAL (8,2)	INTEGER
11%LAX455	PICK AXE	IATE	5897.32	1100
SJC1298%SEA	SMALL SHOVEL	JXJ8972	456.98	43
%LAX6%SF094	TARP	HAU1245	893.12	422
%SJC34LAX45	FLARES	AX111	1200.45	1189
4515%SEA	NULL	AC183	333.9	23
3452%SJC34	un	MIS222	1818.4	15002

FIG. 7

FIND VALUE	REPLACE VALUE
VARCHAR (10)	VARCHAR (20)
%%LAX%	LOS ANGELES
%%DFW%	DALLAS/FORT WORTH
-%%SJC%	SAN JOSE, CA-
%%SF0%	SAN FRANCISCO
%%SEA%	SEATTLE/TACOMA

FIG. 8a

LOWER BOUND	LOWER REPLACEMENT	UPPER BOUND	UPPER REPLACEMENT
INTEGER	INTEGER	INTEGER	INTEGER
100	100	15000	NULL

FIG. 8b

SORT COLUMN	LOWER BOUND	UPPER BOUND	REPLACE VALUE
INTEGER	VARCHAR (6)	VARCHAR (6)	VARCHAR (10)
1	1	12272	SPECIAL
2	НА	JZ	HARDWARE
3	LA	NZ	MISCEL
4	AA	BJ	WINTER STORM
5	RX	NULL	WINTER STORM

FIG. 8c

FIND VALUE	REPLACE VALUE	
VARCHAR (5)	VARCHAR (10)	
NULL	un	

FIG. 8d